



**Australian  
Bureau of  
Statistics**

**April 1989**  
**Persons Employed At Home**  
**Australia**

**Catalogue No. 6275.0**



**EMBARGOED UNTIL 11.30 A.M. 30 AUGUST 1989**

**PERSONS EMPLOYED AT HOME, AUSTRALIA  
APRIL 1989**

**W. McLENNAN  
Acting Australian Statistician**

© Commonwealth of Australia 1989

PHONE INQUIRIES	<ul style="list-style-type: none"> <li>• <i>about these statistics and the availability of related unpublished statistics</i> — contact Ms Cheryl Trussler on Canberra (062) 52 6661 or any ABS State office.</li> <li>• <i>about other statistics and ABS services</i> — contact <b>Information Services</b> on Canberra (062) 52 5402, 52 6007, 52 6627 or any ABS State office.</li> </ul>
MAIL INQUIRIES	<ul style="list-style-type: none"> <li>• <i>write to Information Services</i>, ABS, P.O. Box 10, Belconnen, A.C.T. 2616 or any ABS State office.</li> </ul>
ELECTRONIC SERVICES	<ul style="list-style-type: none"> <li>• on VIATEL — key *656#.</li> <li>• on AUSSTATS — phone (062) 52 6017.</li> <li>• on TELESTATS — phone (062) 52 5404.</li> </ul>

## CONTENTS

Table	Page
.. Summary of Findings	1
<b>Employed persons aged 15 and over</b>	
Whether employed at home—	
1 Age and gender	4
2 Family status	4
<b>Persons employed at home</b>	
3 Summary of characteristics and family status	5
Number of hours usually worked at home—	
4 Whether children aged 0 to 14 present	5
5 Whether all hours usually worked at home	6
6 Industry and whether job worked at home was main job	6
7 Occupation and time in job worked at home	6
<b>Employees employed at home</b>	
8 Summary of working conditions and industry	7
9 All populations by State and gender	8
All relevant characteristics—	
10 Employed persons aged 15 and over	9
11 Persons employed at home	10
12 Employees employed at home	13

## APPENDIXES

A Glossary	17
B Explanatory Notes	18
C Technical Note	20
D Populations, variables and order form for special tables	22

## ADDITIONAL DATA ON REQUEST

The ABS offers a range of unpublished data from this survey upon request.

Appendix D specifies the variables, categories and populations which relate to the survey and includes an order form for special tables.

The population(s) for a particular variable refers to the persons in the survey to whom the variable relates.



## SUMMARY OF FINDINGS

This publication presents results of a household survey conducted in April 1989 of persons aged 15 and over, who were employed at home.

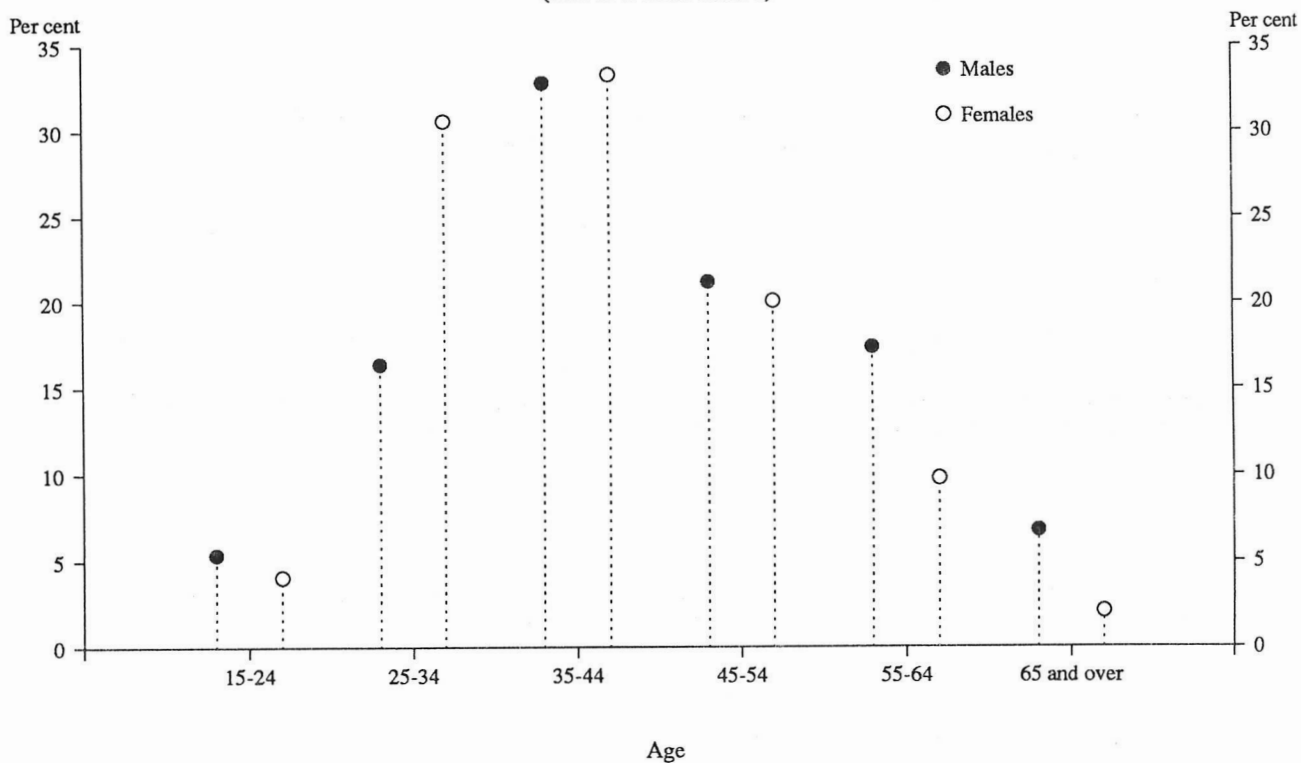
### *Employed persons*

- An estimated 7,683,200 persons aged 15 and over were employed in April 1989, of whom 266,600 persons were employed at home.

### *Persons employed at home*

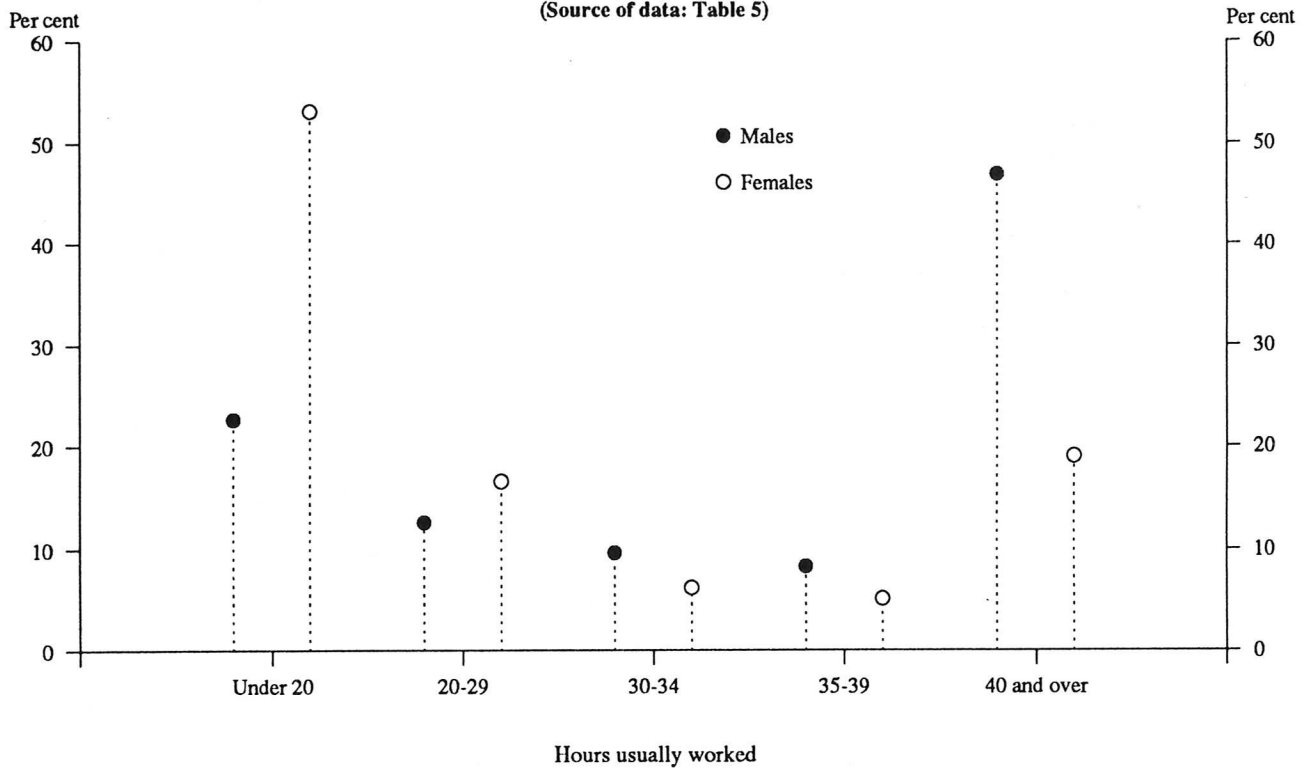
- Of these persons 72 per cent were born in Australia, 44 per cent usually worked less than 20 hours a week at home and 27 per cent usually worked over 40 hours.

**DIAGRAM 1. PERSONS EMPLOYED AT HOME: AGE DISTRIBUTION AND GENDER, APRIL 1989**  
(Source of data: Table 1)



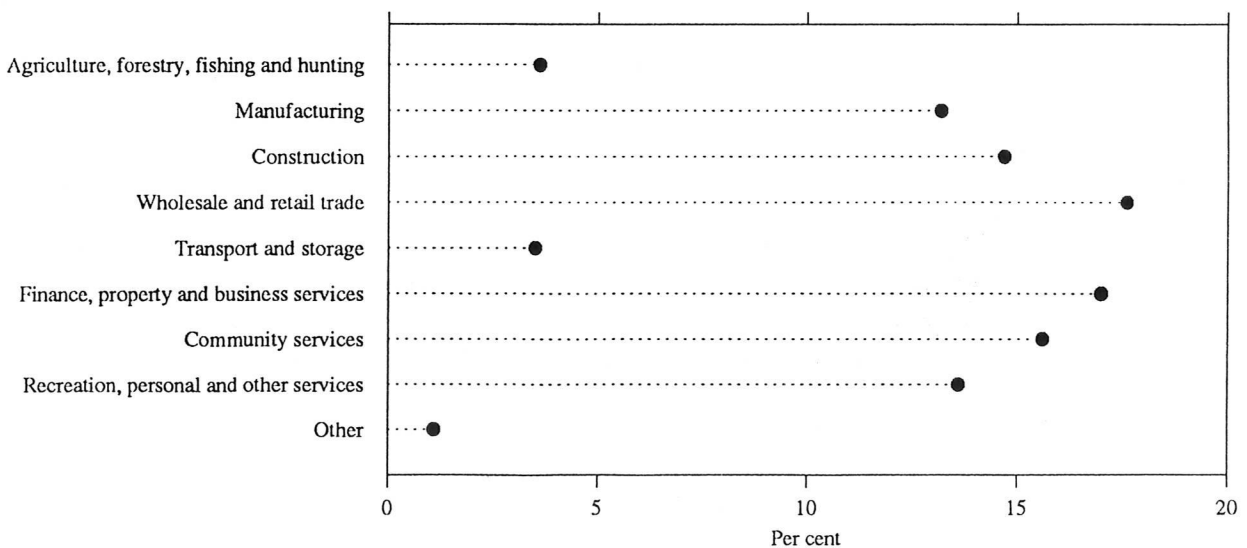
- An estimated 33 per cent of persons who were employed at home were aged between 35 to 44, a further 26 per cent were aged 25 to 34.
- Females accounted for 70 per cent of all persons who were employed at home, with 27 per cent of these working at home because their children were too young/decided to look after children.

**DIAGRAM 2. PERSONS EMPLOYED AT HOME: DISTRIBUTION OF NUMBER OF HOURS USUALLY WORKED AT HOME**  
**APRIL 1989**  
 (Source of data: Table 5)



- A high proportion (57 per cent) of females who were employed at home had children under 14 years.
- Over 50 per cent of persons who were employed at home were a member of a family with children aged under 14 years and of those persons, 32 per cent had children under 3 years of age.

**DIAGRAM 3. PERSONS EMPLOYED AT HOME: INDUSTRY OF MAIN JOB, APRIL 1989**  
 (Source of data: Table 6)



- Of the 241,500 persons employed at home in their main job, 18 per cent were in Wholesale and retail trade, 17 per cent were in Finance, property and business services and a further 16 per cent were in Community services.
- The Occupation groups with a high proportion of persons employed at home were Clerks (40 per cent), Professionals (17 per cent) and Tradespersons (12 per cent).

*Employees employed at home:*

- Females accounted for 74 per cent of all employees employed at home with 28 per cent of those working at home because their children were too young/decided to look after children.
- Of the 93,100 employees employed at home, 23 per cent were in Finance, property and business services and 19 per cent in Community services.
- An estimated 32,700 employees (35 per cent) had superannuation coverage. Of those employees that were covered, 29 per cent were in Finance, property and business services and a further 20 per cent were in Community services. An estimated 74 per cent belonged to a superannuation scheme provided by their employer.
- An estimated 41,400 (44 per cent) did not have workers' compensation coverage.
- Over 65 per cent of employees were paid by the hour rather than by the piece (10 per cent) or on a contract basis (8 per cent).
- Over 90 per cent of all employees were not members of a trade union.

**TABLE 1. EMPLOYED PERSONS AGED 15 AND OVER: AGE AND WHETHER WORKED AT OR EMPLOYED AT HOME  
APRIL 1989  
('000)**

Employed					
Age	Worked some hours at home			Total(a)	Total
	Worked no hours at home	Usually worked less hours at home than elsewhere	Persons employed at home		
MALES					
15-24	857.1	46.2	4.3	73.9	931.0
25-34	959.4	224.9	13.2	264.4	1,223.8
35-44	774.9	307.7	26.3	367.8	1,142.6
45-54	529.8	180.4	17.0	232.5	762.2
55-64	317.0	76.1	14.0	117.3	434.3
65 and over	37.3	14.3	5.5	32.4	69.7
Total	3,475.5	849.6	80.3	1,088.2	4,563.7
FEMALES					
15-24	762.7	36.4	7.7	50.0	812.6
25-34	629.9	129.7	57.0	199.3	829.2
35-44	582.4	142.7	62.0	227.9	810.3
45-54	358.7	66.8	37.4	123.7	482.4
55-64	113.4	20.7	18.2	51.1	164.5
65 and over	10.4	* 2.2	4.0	10.1	20.5
Total	2,457.6	398.5	186.2	662.0	3,119.6
PERSONS					
15-24	1,619.8	82.6	12.0	123.9	1,743.7
25-34	1,589.3	354.6	70.2	463.6	2,053.0
35-44	1,357.3	450.4	88.3	595.7	1,952.9
45-54	888.5	247.2	54.4	356.1	1,244.7
55-64	430.4	96.7	32.1	168.4	598.8
65 and over	47.7	16.6	9.6	42.5	90.2
Total	5,933.0	1,248.1	266.6	1,750.2	7,683.2

(a) Includes 235,400 persons comprising farmers (ASCO unit groups 1401 and 8201) who worked more hours at home than away in their main job, unpaid voluntary workers and persons who worked less than one hour at home.

**TABLE 2. EMPLOYED PERSONS AGED 15 AND OVER: FAMILY STATUS AND WHETHER WORKED AT OR EMPLOYED  
AT HOME, APRIL 1989  
('000)**

	Employed				
	Worked some hours at home				
	Worked no hours at home	Usually worked less hours at home than elsewhere	Persons employed at home	Total(a)	Total
Family status					
Member of a family	4,876.4	1,032.6	229.3	1,470.2	6,346.6
Husband or wife	3,342.2	929.4	216.7	1,321.2	4,663.4
With dependents present	1,981.0	623.2	147.0	869.2	2,850.2
Without dependents present	1,361.2	306.2	69.7	452.0	1,813.2
Other family head	215.5	44.3	6.6	55.0	270.5
With dependents present	128.7	28.4	6.3	36.1	164.8
Without dependents present	86.8	15.9	* 0.4	18.9	105.7
Full-time student aged 15 to 24	229.9	4.8	* 0.4	12.4	242.4
Other child of married couple or family head	1,004.7	50.1	4.9	75.6	1,080.3
Other relative of married couple or family head	84.1	4.0	* 0.7	6.0	90.1
Not a member of a family	807.2	173.1	18.0	206.1	1,013.3
Living alone	323.1	92.7	11.1	114.6	437.7
Not living alone	484.1	80.4	6.9	91.5	575.6
Family status not determined	249.5	42.4	19.3	73.9	323.4
Total	5,933.0	1,248.1	266.6	1,750.2	7,683.2

(a) Includes 235,400 persons comprising farmers (ASCO unit groups 1401 and 8201) who worked more hours at home than away in their main job, unpaid voluntary workers and persons who worked less than one hour at home.

**TABLE 3. PERSONS EMPLOYED AT HOME: SUMMARY OF CHARACTERISTICS AND FAMILY STATUS, APRIL 1989**  
('000)

	<i>Member of a family</i>			<i>Total</i>	<i>Not a member of a family</i>	<i>Family status not determined</i>	<i>Total</i>
	<i>With children aged 0-14 present</i>	<i>Without children aged 0-14 present</i>	<i>Other (a)</i>				
<i>Age-</i>							
15-24	* 2.1	* 1.1	* 2.9	6.1	3.8	* 2.0	12.0
25-34	54.3	6.3	* 1.3	61.9	4.4	3.9	70.2
35-44	66.4	14.1	* 0.8	81.3	* 3.0	4.1	88.3
45-54	11.7	34.6	* 0.6	46.9	* 2.5	5.0	54.4
55-64	* 0.8	25.6	* 0.2	26.6	* 2.8	* 2.8	32.1
65 and over	* 0.0	6.2	* 0.2	6.4	* 1.6	* 1.6	9.6
<i>Birthplace and period of arrival-</i>							
Born in Australia	95.8	63.1	5.6	164.4	11.9	14.9	191.2
Born outside Australia	39.5	24.9	* 0.4	64.9	6.1	4.4	75.3
Born in main English speaking countries	19.1	11.0	* 0.4	30.5	3.7	* 2.8	36.9
Born in other countries	20.4	14.0	* 0.0	34.4	* 2.4	* 1.6	38.4
Arrived before 1971	19.0	17.7	* 0.3	37.0	* 2.8	* 2.6	42.5
Arrived 1971 - 1989	20.5	7.2	* 0.1	27.8	* 3.3	* 1.7	32.9
<b>Total</b>	<b>135.3</b>	<b>88.0</b>	<b>6.0</b>	<b>229.3</b>	<b>18.0</b>	<b>19.3</b>	<b>266.6</b>
Males	28.9	31.4	* 3.3	63.6	9.6	7.2	80.3
Females	106.4	56.6	* 2.7	165.7	8.4	12.1	186.2

(a) Includes Full-time students aged 15 to 24, Other child of married couple or family head and Other relative of married couple or family head.

**TABLE 4. PERSONS EMPLOYED AT HOME: WHETHER CHILDREN AGED 0 TO 14 PRESENT AND NUMBER OF HOURS  
USUALLY WORKED AT HOME, APRIL 1989**  
('000)

<i>Whether children aged 0 to 14 present</i>	<i>Number of hours usually worked at home</i>					<i>Total</i>
	<i>Under 20</i>	<i>20 - 29</i>	<i>30 - 34</i>	<i>35 - 39</i>	<i>40 and over</i>	
Member of a family with children aged 0 to 14 present	67.7	19.9	10.5	7.1	30.0	135.3
One or more children under 3 years of age	26.3	5.6	* 2.7	* 2.4	6.3	43.2
No children under 3 years of age	41.4	14.3	7.8	4.8	23.7	92.1
One or more aged 3 to 5	4.1	* 0.8	* 0.7	* 0.5	* 0.8	6.9
One or more aged 6 to 14	26.2	10.4	4.9	* 3.0	18.2	62.7
One or more aged 3 to 5 and one or more aged 6 to 14	11.1	* 3.1	* 2.2	* 1.3	4.7	22.5
Member of a family without children aged 0 to 14 present	44.8	18.7	7.7	8.5	32.3	112.0
Family status not determined	4.4	* 2.5	* 1.1	* 0.5	10.8	19.3
<b>Total</b>	<b>116.9</b>	<b>41.1</b>	<b>19.3</b>	<b>16.1</b>	<b>73.1</b>	<b>266.6</b>

**TABLE 5. PERSONS EMPLOYED AT HOME: NUMBER OF HOURS USUALLY WORKED AT HOME AND WHETHER ALL HOURS USUALLY WORKED AT HOME, APRIL 1989**  
(<sup>'000</sup>)

<i>Number of hours usually worked at home</i>	<i>All hours usually worked at home</i>			<i>Some hours usually worked at home</i>			<i>Total</i>		
	<i>Males</i>	<i>Females</i>	<i>Persons</i>	<i>Males</i>	<i>Females</i>	<i>Persons</i>	<i>Males</i>	<i>Females</i>	<i>Persons</i>
Under 20	6.4	69.6	76.1	11.7	29.1	40.9	18.2	98.8	116.9
20 - 29	3.7	21.3	25.0	6.4	9.6	16.0	10.1	30.9	41.1
30 - 34	* 1.8	7.2	9.0	5.9	4.4	10.3	7.7	11.6	19.3
35 - 39	* 2.3	6.7	8.9	4.4	* 2.8	7.2	6.7	9.5	16.1
40 and over	19.7	27.7	47.4	18.0	7.8	25.7	37.7	35.4	73.1
<b>Total</b>	<b>33.9</b>	<b>132.5</b>	<b>166.4</b>	<b>46.4</b>	<b>53.8</b>	<b>100.2</b>	<b>80.3</b>	<b>186.2</b>	<b>266.6</b>

**TABLE 6. PERSONS EMPLOYED AT HOME: INDUSTRY AND WHETHER JOB WORKED AT HOME WAS MAIN JOB**  
**APRIL 1989**  
(<sup>'000</sup>)

<i>Industry</i>	<i>Whether job worked at home was main job</i>		<i>Total</i>
	<i>Main job</i>	<i>Second job</i>	
Agriculture, forestry, fishing and hunting	8.7	* 0.4	9.1
Manufacturing	31.9	* 2.5	34.4
Construction	35.6	* 2.3	37.9
Wholesale and retail trade	42.4	4.7	47.1
Transport and storage	8.5	* 0.8	9.3
Finance, property and business services	41.1	6.0	47.1
Community services	37.7	3.5	41.2
Recreation, personal and other services	32.9	4.4	37.2
Other(a)	* 2.7	* 0.5	* 3.2
<b>Total</b>	<b>241.5</b>	<b>25.0</b>	<b>266.6</b>

(a) Includes Mining, Electricity, gas and water, Communication and Public administration and defence.

**TABLE 7. PERSONS EMPLOYED AT HOME: OCCUPATION AND TIME IN JOB WORKED AT HOME**  
**APRIL 1989**  
(<sup>'000</sup>)

<i>Occupation</i>	<i>Time in job worked at home</i>				<i>Total</i>
	<i>Under 5 years</i>	<i>5 and under 10 years</i>	<i>10 and under 15 years</i>	<i>15 years and over</i>	
Managers and administrators	14.4	5.8	4.2	* 1.9	26.2
Professionals	26.4	8.7	4.6	5.5	45.3
Para-professionals	6.2	* 1.1	* 0.0	* 0.1	7.4
Tradespersons	15.6	7.7	3.7	4.3	31.4
Clerks	53.1	22.6	14.6	17.6	107.9
Salespersons and personal service workers	22.7	* 2.0	* 1.2	* 1.5	27.4
Other(a)	13.7	3.9	* 1.1	* 2.3	21.0
<b>Total</b>	<b>152.0</b>	<b>51.8</b>	<b>29.5</b>	<b>33.2</b>	<b>266.6</b>

(a) Includes Plant and machine operators, and drivers; and Labourers and related workers.

TABLE 8. EMPLOYEES EMPLOYED AT HOME: SUMMARY OF WORKING CONDITIONS AND INDUSTRY  
APRIL 1989

	Industry					Total
	Const- ruction	Wholesale and retail trade	Finance, property and business services	Community services	Other (a)	
	-'000-					
<i>Superannuation coverage-</i>						
Covered	3.8	4.9	9.4	6.7	7.8	32.7
Provided by current employer	3.6	3.9	6.6	5.1	5.1	24.4
Other	* 0.2	* 1.0	* 2.8	* 1.6	* 2.6	8.3
Not covered	7.6	7.5	12.3	10.6	22.5	60.5
<i>Workers' compensation coverage-</i>						
Covered	6.9	4.7	8.9	9.1	15.2	44.9
Not covered	4.3	6.8	11.7	6.6	12.0	41.4
Did not know	* 0.2	* 0.9	* 1.2	* 1.6	* 3.0	6.8
<i>Trade union membership-</i>						
Member	* 0.1	* 0.8	* 0.1	* 1.1	* 1.7	3.9
Not a member	11.3	11.6	21.6	16.2	28.5	89.2
<i>Whether permanent or casual-</i>						
Permanent	5.3	4.3	7.3	9.7	10.6	37.2
Casual	6.2	8.1	14.4	7.6	19.7	55.9
<i>Number of hours usually worked at home-</i>						
Under 20	6.5	6.4	10.6	8.8	8.5	40.7
20 - 39	* 3.2	* 3.0	6.8	5.1	10.2	28.4
40 and over	* 1.7	* 3.0	4.3	3.5	11.5	24.0
<i>Whether doing same type of work at home for other employers-</i>						
Working at home for other employers	* 0.2	* 0.3	* 1.0	* 0.6	* 1.1	* 3.2
Not working at home for other employers	11.3	12.1	20.8	16.7	29.1	89.9
<i>Basis of payment-</i>						
By the piece	* 0.4	* 1.3	* 0.4	* 0.6	6.1	8.9
On contract	* 0.3	* 1.7	* 3.3	* 0.5	* 1.9	7.7
By the hour	9.1	7.5	13.4	14.5	18.1	62.6
Other	* 1.7	* 2.0	4.5	* 1.7	4.1	14.0
<b>Total</b>	<b>11.5</b>	<b>12.4</b>	<b>21.7</b>	<b>17.3</b>	<b>30.2</b>	<b>93.1</b>
	-dollars-					
<i>Average usual gross weekly pay</i>	226	203	225	220	214	217

(a) Includes Agriculture, forestry, fishing and hunting; Mining; Manufacturing; Electricity, gas and water; Transport and storage; Communication; Public administration and defence; and Recreation, personal and other services.

TABLE 9. ALL POPULATIONS BY STATE AND GENDER  
( '000)

<i>Populations</i>	<i>New South Wales</i>	<i>Victoria</i>	<i>Queensland</i>	<i>South Australia</i>	<i>Western Australia</i>	<i>Tasmania</i>	<i>Northern Territory</i>	<i>Australian Capital Territory</i>	<i>Australia</i>
MALES									
Employed persons aged 15 and over	1,534.4	1,203.6	754.9	382.8	448.2	116.2	47.4	76.2	4,563.7
Persons employed at home	23.8	22.2	15.5	6.9	7.2	2.9	* 0.5	1.4	80.3
Employees employed at home (excluding persons who worked for payment in kind)	8.2	5.8	4.8	* 1.6	* 1.6	* 0.9	* 0.5	* 0.5	23.9
FEMALES									
Employed persons aged 15 and over	1,036.3	835.0	505.4	270.2	300.9	72.5	34.6	64.7	3,119.6
Persons employed at home	58.9	46.7	38.7	12.7	20.6	4.4	* 0.5	3.7	186.2
Employees employed at home (excluding persons who worked for payment in kind)	26.6	19.4	11.7	2.4	6.0	1.7	* 0.2	* 1.3	69.2
PERSONS									
Employed persons aged 15 and over	2,570.8	2,038.5	1,260.3	652.9	749.1	188.7	82.0	141.0	7,683.2
Persons employed at home	82.7	68.9	54.2	19.6	27.9	7.3	* 1.0	5.1	266.6
Employees employed at home (excluding persons who worked for payment in kind)	34.8	25.2	16.5	4.0	7.5	2.6	* 0.7	1.8	93.1

TABLE 10. CHARACTERISTICS OF EMPLOYED PERSONS AGED 15 AND OVER

	<i>Males</i>	<i>Females</i> <i>- '000-</i>	<i>Persons</i>	<i>Proportion</i> <i>(per cent)</i>
<b>TOTAL</b>	<b>4,563.7</b>	<b>3,119.6</b>	<b>7,683.2</b>	<b>100.0</b>
<i>Area-</i>				
Metropolitan	2,837.7	2,018.2	4,855.9	63.0
Non-metropolitan	1,726.0	1,101.4	2,827.3	37.0
<i>Marital status-</i>				
Married	2,948.0	1,880.8	4,828.9	63.4
Not-married	1,615.6	1,238.7	2,854.4	36.6
<i>Family status-</i>				
Member of a family	3,769.8	2,576.8	6,346.6	82.8
Husband or wife	2,860.2	1,803.2	4,663.4	61.2
With dependents present	1,788.0	1,062.2	2,850.2	37.2
Without dependents present	1,072.2	741.0	1,813.2	24.1
Other family head	78.7	191.8	270.5	3.6
With dependents present	32.7	132.1	164.8	2.2
Without dependents present	46.0	59.7	105.7	1.3
Full-time student aged 15-24	105.1	137.3	242.4	3.2
Other child of married couple or family head	669.8	410.5	1,080.3	13.7
Other relative of married couple or family head	56.1	34.1	90.1	1.1
Not a member of a family	610.6	402.7	1,013.3	12.9
Living alone	274.1	163.6	437.7	5.6
Not living alone	336.5	239.1	575.6	7.3
Family status not determined	183.4	140.0	323.4	4.3
<i>Birthplace and period of arrival-</i>				
Born in Australia	3,335.9	2,359.0	5,694.8	74.1
Born outside Australia	1,227.8	760.6	1,988.4	25.9
Born in main English speaking countries	533.5	354.9	888.4	12.5
Born in other countries	694.3	405.8	1,100.0	13.4
Arrived before 1971	670.5	381.8	1,052.2	13.9
Arrived 1971 - 1989	557.3	378.9	936.2	12.0
<i>Age-</i>				
15-24	931.0	812.6	1,743.7	22.5
25-34	1,223.8	829.2	2,053.0	26.0
35-44	1,142.6	810.3	1,952.9	26.2
45-54	762.2	482.4	1,244.7	16.2
55-64	434.3	164.5	598.8	8.0
65 and over	69.7	20.5	90.2	1.1
<i>Whether worked at or employed at home-</i>				
Worked no hours at home	3,475.5	2,457.6	5,933.0	76.9
Worked some hours at home(a)	1,088.2	662.0	1,750.2	23.1
Usually worked less hours at home than elsewhere	849.6	398.5	1,248.1	16.3
Persons employed at home	80.3	186.2	266.6	3.6

(a) Includes 235,400 persons comprising farmers (ASCO unit groups 1401 and 8201) who worked more hours at home than away in their main job, unpaid voluntary workers and persons who worked less than one hour at home.

TABLE 11. CHARACTERISTICS OF PERSONS AGED 15 AND OVER EMPLOYED AT HOME

	<i>Males</i>	<i>Females -'000-</i>	<i>Persons</i>	<i>Proportion (per cent)</i>
<b>TOTAL</b>	<b>80.3</b>	<b>186.2</b>	<b>266.6</b>	<b>100.0</b>
<i>Area-</i>				
Metropolitan	46.3	109.4	155.7	57.8
Non-metropolitan	34.0	76.9	110.9	42.2
<i>Marital status-</i>				
Married	64.3	165.1	229.4	86.6
Not-married	16.1	21.1	37.2	13.4
<i>Family status-</i>				
Member of a family	63.6	165.7	229.3	86.4
Husband or wife	59.5	157.2	216.7	81.6
With dependents present	33.9	113.0	147.0	55.3
Without dependents present	25.6	44.1	69.7	26.4
Other family head	* 0.8	5.8	6.6	2.5
With dependents present	* 0.4	5.8	6.3	2.3
Without dependents present	* 0.4	* 0.0	* 0.4	0.0
Full-time student aged 15-24	* 0.2	* 0.2	* 0.4	0.0
Other child of married couple or family head	* 3.0	* 1.9	4.9	1.8
Other relative of married couple or family head	* 0.0	* 0.7	* 0.7	0.0
Not a member of a family	9.6	8.4	18.0	6.6
Living alone	6.4	4.7	11.1	4.0
Not living alone	* 3.2	3.8	6.9	2.6
Family status not determined	7.2	12.1	19.3	7.0
<i>Birthplace and period of arrival-</i>				
Born in Australia	54.9	136.3	191.2	71.0
Born outside Australia	25.4	49.9	75.3	29.0
Born in main English speaking countries	12.0	24.9	36.9	15.2
Born in other countries	13.4	25.0	38.4	13.8
Arrived before 1971	13.5	29.0	42.5	16.5
Arrived 1971 - 1989	11.9	20.9	32.9	12.5
<i>Age-</i>				
15-24	4.3	7.7	12.0	4.5
25-34	13.2	57.0	70.2	25.9
35-44	26.3	62.0	88.3	34.1
45-54	17.0	37.4	54.4	20.3
55-64	14.0	18.2	32.1	11.7
65 and over	5.5	4.0	9.6	3.4
<i>Status of worker-</i>				
Employers	10.5	21.4	31.9	12.6
Self-employed/unpaid family helpers	45.1	93.6	138.6	53.2
Employees	23.9	69.2	93.1	33.3
Payment in kind	* 0.9	* 2.0	* 2.9	0.9
<i>Educational attainment-</i>				
With post-school qualifications	51.5	78.4	129.9	49.3
Degree	15.3	18.7	34.0	12.9
Trade qualification or apprenticeship	18.4	3.9	22.3	8.7
Certificate or diploma	17.4	54.8	72.3	27.1
Other	* 0.3	* 1.0	* 1.2	0.0
Without post-school qualifications	28.9	107.8	136.7	50.7
Attended highest level of secondary school available	10.1	21.4	31.5	11.7
Did not attend highest level of secondary school available	18.8	85.8	104.6	38.7
Left at age -				
16 and over	6.5	34.7	41.2	15.0
15 and under	12.3	51.1	63.4	23.8
Never attended school	* 0.0	* 0.0	* 0.0	0.0
Secondary school qualifications not determined	* 0.0	* 0.6	* 0.6	0.0

TABLE 11. CHARACTERISTICS OF PERSONS AGED 15 AND OVER EMPLOYED AT HOME —continued

	Males	Females -'000-	Persons	Proportion (per cent)
<b>TOTAL</b>	<b>80.3</b>	<b>186.2</b>	<b>266.6</b>	<b>100.0</b>
<i>Whether job worked at home was main job-</i>				
Main job	70.2	171.3	241.5	90.5
Second job	10.1	14.9	25.0	9.5
<i>Industry-</i>				
Agriculture, forestry, fishing and hunting	* 1.7	7.5	9.1	3.7
Manufacturing	14.2	20.2	34.4	12.6
Construction	* 3.3	34.6	37.9	14.6
Wholesale and retail trade	16.2	30.9	47.1	17.8
Transport and storage	* 0.4	9.0	9.3	3.7
Finance, property and business services	18.6	28.5	47.1	17.5
Community services	9.9	31.3	41.2	15.0
Recreation, personal and other services	15.3	21.9	37.2	14.3
Other(a)	* 0.7	* 2.5	* 3.2	0.9
<i>Occupation-</i>				
Managers and administrators	16.0	10.2	26.2	9.2
Professionals	25.3	19.9	45.3	16.8
Para-professionals	4.7	* 2.7	7.4	3.0
Tradespersons	18.7	12.6	31.4	12.2
Clerks	* 3.0	104.9	107.9	40.9
Salespersons and personal service workers	7.1	20.3	27.4	10.6
Other(b)	5.4	15.7	21.0	7.2
<i>Number of hours usually worked-</i>				
Under 20	15.2	94.0	109.2	42.3
20 - 29	7.6	30.2	37.9	14.1
30 - 34	4.0	11.8	15.8	6.0
35 - 39	3.6	9.7	13.3	4.9
40 and over	49.9	40.5	90.4	32.8
<i>Whether all hours usually worked at home-</i>				
All hours usually worked at home	33.9	132.5	166.4	62.7
Some hours usually worked at home	46.4	53.8	100.2	37.3
<i>Number of hours usually worked at home-</i>				
Under 20	18.2	98.8	116.9	45.2
20 - 29	10.1	30.9	41.1	15.3
30 - 34	7.7	11.6	19.3	7.1
35 - 39	6.7	9.5	16.1	6.0
40 and over	37.7	35.4	73.1	26.4
<i>Main reason began working at home-</i>				
Wanted office at home/no overheads/no rent	31.9	45.2	77.1	29.1
Did not want to travel to work	* 3.2	* 3.4	6.6	2.1
Flexible working hours	8.4	18.1	26.5	9.6
Unable to find suitable childcare	* 0.0	* 2.1	* 2.1	0.8
Children too young/decided to look after children	* 0.5	50.1	50.6	18.8
Reached retirement age	4.1	* 2.1	6.2	2.0
No other work available	* 3.4	5.6	8.9	3.4
Other	28.9	59.6	88.4	34.2
<i>Time in job worked at home-</i>				
Under 5 years	46.6	105.4	152.0	57.8
5 and under 10 years	16.6	35.2	51.8	19.0
10 and under 15 years	8.8	20.7	29.5	10.7
15 and under 20 years	4.2	10.7	14.9	5.5
20 years and over	4.1	14.2	18.3	7.0
<i>Similar previous work experience-</i>				
Had done this type of work before	40.6	71.1	111.8	42.2
At home only	8.1	14.3	22.5	8.4
Elsewhere	32.5	56.8	89.3	33.8
Had not done this type of work before	39.7	115.1	154.8	57.8

TABLE 11. CHARACTERISTICS OF PERSONS AGED 15 AND OVER EMPLOYED AT HOME —continued

	<i>Males</i>	<i>Females -'000-</i>	<i>Persons</i>	<i>Proportion (per cent)</i>
<b>TOTAL</b>	<b>80.3</b>	<b>186.2</b>	<b>266.6</b>	<b>100.0</b>
<i>Superannuation coverage-</i>				
Covered	31.3	50.3	81.5	31.1
Employees	11.9	20.8	32.7	11.9
Provided by current employer	8.4	16.0	24.4	8.8
Other	3.5	4.8	8.3	3.1
Other	19.4	29.5	48.9	19.2
Not covered	49.1	136.0	185.0	68.9
<i>Workers' compensation coverage-</i>				
Covered	22.6	48.3	70.9	25.7
Not covered	55.1	125.7	180.8	68.8
Did not know	* 2.7	12.3	15.0	5.5
<i>Whether children aged 0 to 14 present-</i>				
Member of a family with children aged 0 to 14 present	28.9	106.4	135.3	51.0
One or more children under 3 years of age	7.6	35.6	43.2	15.8
No children under 3 years of age	21.2	70.8	92.1	35.2
One or more aged 3 to 5	* 1.6	5.3	6.9	2.9
One or more aged 6 to 14	14.1	48.6	62.7	24.0
One or more aged 3 to 5 and one or more aged 6 to 14	5.5	16.9	22.5	8.3
Member of a family without children aged 0 to 14	44.3	67.7	112.0	42.0
Family status not determined	7.2	12.1	19.3	7.0

(a) Includes Mining, Electricity, gas and water, Communication and Public administration and defence. (b) Includes Plant and machine operators, and drivers and Labourers and related workers.

**TABLE 12. CHARACTERISTICS OF EMPLOYEES AGED 15 AND OVER EMPLOYED AT HOME  
(EXCLUDING PERSONS WHO WORKED FOR PAYMENT IN KIND)**

	<i>Males</i>	<i>Females -'000-</i>	<i>Persons</i>	<i>Proportion (per cent)</i>
<b>TOTAL</b>	<b>23.9</b>	<b>69.2</b>	<b>93.1</b>	<b>100.0</b>
<i>Area-</i>				
Metropolitan	14.8	44.7	59.5	62.6
Non-metropolitan	9.1	24.5	33.6	37.4
<i>Marital status-</i>				
Married	20.0	62.5	82.5	89.0
Not-married	3.9	6.7	10.6	11.0
<i>Family status-</i>				
Member of a family	19.2	61.3	80.5	86.9
Husband or wife	18.4	59.1	77.5	83.5
With dependents present	9.1	44.1	53.2	57.7
Without dependents present	9.2	15.0	24.3	25.8
Other family head	* 0.1	* 1.3	* 1.4	1.7
With dependents present	* 0.0	* 1.3	* 1.3	1.5
Without dependents present	* 0.1	* 0.0	* 0.1	0.0
Full-time student aged 15-24	* 0.0	* 0.0	* 0.0	0.0
Other child of married couple or family head	* 0.7	* 0.4	* 1.1	1.3
Other relative of married couple or family head	* 0.0	* 0.5	* 0.5	0.0
Not a member of a family	* 2.5	3.5	6.0	6.1
Living alone	* 1.9	* 1.1	* 3.0	3.2
Not living alone	* 0.6	* 2.4	* 3.0	3.0
Family status not determined	* 2.2	4.4	6.6	7.0
<i>Birthplace and period of arrival-</i>				
Born in Australia	16.8	50.8	67.7	71.9
Born outside Australia	7.1	18.4	25.5	28.1
Born in main English speaking countries	3.5	7.7	11.2	13.3
Born in other countries	3.6	10.7	14.3	14.8
Arrived before 1971	* 2.9	9.1	12.0	13.5
Arrived 1971 - 1989	4.2	9.3	13.4	14.6
<i>Age-</i>				
15-24	* 1.5	* 2.3	3.8	4.7
25-34	3.9	22.2	26.1	26.4
35-44	7.3	23.6	30.9	34.7
45-54	5.9	14.2	20.1	21.4
55-64	4.0	5.3	9.3	10.1
65 and over	* 1.2	* 1.6	* 2.9	2.7
<i>Educational attainment-</i>				
With post-school qualifications	15.5	29.6	45.1	49.7
Degree	5.9	9.1	14.9	16.5
Trade qualification or apprenticeship	3.6	* 1.0	4.7	5.3
Certificate or diploma	6.0	19.2	25.2	27.7
Other	* 0.0	* 0.2	* 0.2	0.0
Without post-school qualifications	8.4	39.7	48.1	50.3
Attended highest level of secondary school available	* 3.0	9.1	12.1	12.3
Did not attend highest level of secondary school available	5.4	30.6	36.0	38.1
Left at age -				
16 and over	* 2.6	11.8	14.5	15.2
15 and under	* 2.7	18.8	21.5	22.8
Never attended school	* 0.0	* 0.0	* 0.0	0.0
Secondary school qualifications not determined	* 0.0	* 0.0	* 0.0	0.0
<i>Whether job worked at home was main job-</i>				
Main job	21.0	63.0	83.9	89.9
Second job	* 2.9	6.3	9.2	10.1

TABLE 12. CHARACTERISTICS OF EMPLOYEES AGED 15 AND OVER EMPLOYED AT HOME  
(EXCLUDING PERSONS WHO WORKED FOR PAYMENT IN KIND) —continued

	Males	Females -'000-	Persons	Proportion (per cent)
<b>TOTAL</b>	<b>23.9</b>	<b>69.2</b>	<b>93.1</b>	<b>100.0</b>
<i>Industry-</i>				
Agriculture, forestry, fishing and hunting	* 0.0	* 2.4	* 2.4	2.7
Manufacturing	* 3.3	8.2	11.6	12.1
Construction	* 1.5	10.0	11.5	11.8
Wholesale and retail trade	* 3.0	9.4	12.4	13.3
Transport and storage	* 0.1	* 2.7	* 2.7	3.2
Finance, property and business services	6.8	14.9	21.7	23.7
Community services	4.7	12.6	17.3	18.8
Recreation, personal and other services	4.5	7.2	11.8	12.9
Other(a)	* 0.0	* 1.7	* 1.7	1.5
<i>Occupation-</i>				
Managers and administrators	6.6	3.6	10.2	10.1
Professionals	9.7	5.3	14.9	16.7
Para-professionals	* 1.2	* 0.9	* 2.1	2.5
Tradespersons	* 1.4	* 2.8	4.2	5.1
Clerks	* 1.2	43.2	44.4	48.2
Salespersons and personal service workers	* 2.4	6.5	8.9	9.3
Other(b)	* 1.3	7.0	8.3	8.0
<i>Number of hours usually worked-</i>				
Under 20	4.5	32.3	36.7	40.0
20 - 29	* 2.0	14.1	16.1	17.3
30 - 34	* 1.4	4.0	5.4	6.3
35 - 39	* 0.5	3.9	4.4	4.4
40 and over	15.5	15.0	30.6	31.9
<i>Whether all hours usually worked at home-</i>				
All hours usually worked at home	7.2	49.1	56.3	60.0
Some hours usually worked at home	16.7	20.2	36.9	40.0
<i>Number of hours usually worked at home-</i>				
Under 20	5.8	34.9	40.7	44.4
20 - 29	* 3.0	13.0	16.0	17.8
30 - 34	* 2.2	3.9	6.2	6.8
35 - 39	* 2.4	3.9	6.3	6.8
40 and over	10.5	13.5	24.0	24.3
<i>Main reason began working at home-</i>				
Wanted office at home/no overheads/no rent	8.9	15.3	24.2	26.4
Did not want to travel to work	* 0.7	* 1.7	* 2.4	2.3
Flexible working hours	* 2.5	6.9	9.4	10.6
Unable to find suitable childcare	* 0.0	* 0.2	* 0.2	0.0
Children too young/decided to look after children	* 0.3	19.7	20.0	21.4
Reached retirement age	* 1.4	* 0.9	* 2.2	2.1
No other work available	* 1.0	* 1.5	* 2.5	2.3
Other	9.2	22.9	32.1	34.7
<i>Time in job worked at home-</i>				
Under 5 years	14.1	42.1	56.2	60.9
5 and under 10 years	5.7	11.2	16.8	17.8
10 and under 15 years	* 2.6	7.5	10.2	10.8
15 and under 20 years	* 0.5	3.7	4.2	4.4
20 years and over	* 1.0	4.8	5.8	6.1
<i>Similar previous work experience-</i>				
Had done this type of work before	11.9	28.5	40.4	44.4
At home only	* 2.8	4.7	7.5	8.0
Elsewhere	9.1	23.8	32.9	36.4
Had not done this type of work before	12.0	40.7	52.7	55.6

TABLE 12. CHARACTERISTICS OF EMPLOYEES AGED 15 AND OVER EMPLOYED AT HOME  
(EXCLUDING PERSONS WHO WORKED FOR PAYMENT IN KIND) —continued

	Males	Females -'000-	Persons	Proportion (per cent)
<b>TOTAL</b>	<b>23.9</b>	<b>69.2</b>	<b>93.1</b>	<b>100.0</b>
<i>Superannuation coverage-</i>				
Covered	11.9	20.8	32.7	35.7
Provided by current employer	8.4	16.0	24.4	26.4
Other	3.5	4.8	8.3	9.3
Not covered	12.0	48.4	60.5	64.3
<i>Workers' compensation coverage-</i>				
Covered	13.1	31.8	44.9	47.6
Not covered	10.1	31.2	41.4	44.8
Did not know	* 0.7	6.1	6.8	7.6
<i>Whether children aged 0 to 14 present-</i>				
Member of a family with children aged 0 to 14 present	7.9	40.4	48.3	52.4
One or more children under 3 years of age	* 2.1	14.5	16.6	16.9
No children under 3 years of age	5.8	25.9	31.8	35.5
One or more aged 3 to 5	* 0.7	* 1.6	* 2.3	2.5
One or more aged 6 to 14	* 3.3	18.0	21.3	24.3
One or more aged 3 to 5 and one or more aged 6 to 14	* 1.8	6.3	8.1	8.7
Member of a family without children aged 0 to 14	13.9	24.4	38.2	40.6
Family status not determined	* 2.2	4.4	6.6	7.0
<i>Trade union membership-</i>				
Member	* 1.8	* 2.1	3.9	3.8
Not a member	22.1	67.1	89.2	96.2
<i>Provision of sick leave-</i>				
Paid sick leave	11.5	20.0	31.5	34.0
No paid sick leave	12.4	49.2	61.6	66.0
<i>Provision of holiday leave-</i>				
Paid holiday leave	10.8	23.5	34.3	37.2
No paid holiday leave	13.1	45.7	58.8	62.8
<i>Whether permanent or casual-</i>				
Permanent	12.1	25.1	37.2	40.0
Casual	11.8	44.1	55.9	60.0
<i>Whether doing same type of work at home for other employers</i>				
Working at home for other employers	* 2.1	* 1.1	* 3.2	3.6
Not working at home for other employers	21.8	68.1	89.9	96.4
<i>Usual gross weekly pay-</i>				
Under 120	* 2.2	20.5	22.7	23.9
120 and under 160	* 1.0	8.0	9.0	9.9
160 and under 200	* 0.5	5.4	5.9	5.9
200 and under 240	* 1.5	5.6	7.0	7.8
240 and under 280	* 1.0	4.2	5.2	5.7
280 and under 320	* 2.0	5.1	7.2	7.2
320 and under 360	* 1.1	* 2.0	* 3.1	4.0
360 and under 400	* 1.2	* 2.8	4.0	4.2
400 and under 600	4.3	3.9	8.2	9.1
600 and over	4.2	* 2.1	6.2	6.8
Did not know	4.9	9.7	14.6	15.4
<i>Basis of payment-</i>				
By the piece	* 1.3	7.6	8.9	9.1
On contract	* 3.4	4.3	7.7	7.6
By the hour	15.6	47.0	62.6	68.3
Other	3.6	10.4	14.0	15.0

(a) Includes Mining, Electricity, gas and water, Communication and Public administration and defence. (b) Includes Plant and machine operators, and drivers and Labourers and related workers.



## APPENDIX A

## GLOSSARY

*Average usual gross weekly pay:* the amount obtained by dividing the total usual gross weekly pay of a group by the number of individuals in that group.

*Casual employees:* employees who were not entitled to annual leave or sick leave.

*Child care workers:* Australian Standard Classification of Occupations (ASCO) unit group 6601 (Child care, refuge and related workers).

*Employed persons:* persons aged 15 and over who, during the reference week —

- (a) worked for one hour or more for pay, profit, commission or payment in kind in a job or business, or on a farm (comprising employees, employers and self-employed persons); or
- (b) worked for one hour or more without pay in a family business or on a farm (i.e. unpaid family helpers); or
- (c) were employees who had a job but were not at work and were: on paid leave; on leave without pay for less than four weeks up to the end of the reference week; stood down without pay because of bad weather or plant breakdown at their place of employment for less than four weeks up to the end of the reference week; on strike or locked out; on workers' compensation and expected to be returning to their job; or receiving wages or salary while undertaking full-time study; or
- (d) were employers, self-employed persons or unpaid family helpers who had a job, business or farm, but were not at work.

*Employees:* employed persons who worked —

- (a) for an employer for wages or salary; or
- (b) in their own business, either with or without employees, if that business was a limited liability company; or
- (c) for payment in kind.

*Family:* is defined to consist of two or more related persons usually resident in the same household at the time of the survey. A family comprises a married couple or a family head together with any persons having any of the following relationships to them:

- (a) sons or daughters of any age, if not married and with no children of their own present; or

(b) other relatives if not accompanied by a spouse, sons or daughters, or parents of their own; or

(c) any children under 15 years of age who do not have a parent present.

Further details on the determination of family relationships are given in *The Labour Force, Australia* (6203.0).

*Main English-speaking countries:* comprises the United Kingdom, Ireland, Canada, South Africa, U.S.A. and New Zealand.

*Main job:* the job in which most hours were usually worked.

*Permanent employees:* employees who were entitled to annual leave or sick leave.

*Persons employed at home:* persons who usually worked more hours at home than elsewhere in their main or second job or business. Farmers, ASCO unit groups 1401 (Farmers and farm managers) and 8201 (Farm hands and assistants), unpaid voluntary workers and persons who worked less than one hour were excluded.

*Superannuation:* membership of a superannuation or retirement benefits scheme.

*Textiles, clothing and footwear industry:* Australian Standard Industrial Classification (ASIC) groups 234 (Textile fibres, yarns and woven fabrics), 235 (Other textile products), 244 (Knitting mills), 245 (Clothing) and 246 (Footwear).

*Trade Union (or employee association):* an organisation consisting predominantly of employees, the principal activities of which are the negotiation of rates of pay and conditions of employment for its members.

*Usual gross weekly pay:* the amount of usual total weekly pay (i.e. before taxation and other deductions have been made).

*Worked some hours at home:* includes work done as part or as an extension of one's job. Teachers who prepare work at home are included.

*Workers' compensation:* provision of workers' compensation coverage as collected by responses to the question 'Are you covered by workers' compensation in your main job?'. Income protection insurance is excluded.

## APPENDIX B

### EXPLANATORY NOTES

#### Introduction

1. The monthly population survey (which is described in *The Labour Force, Australia* (6203.0)) comprises the monthly labour force survey and supplementary topics. This publication contains some results of a supplementary survey run in association with the April 1989 labour force survey conducted throughout Australia.

2. Of the respondents to the labour force survey, those who fell within the scope of the supplementary survey were asked additional questions. They were asked information about the jobs in which they were employed at home.

#### Scope

3. The scope of this supplementary survey was the same as that used for the labour force survey (described in full in *The Labour Force, Australia* (6203.0)) except that it was restricted to persons employed at home.

#### Coverage

4. In the population survey, coverage rules are applied which aim to ensure that each person is associated with only one dwelling, and hence has only one chance of selection. See *The Labour Force, Australia* (6203.0) for more details.

#### Definitions

5. Definitions of labour force and demographic classifications appearing in this publication are given in *The Labour Force, Australia* (6203.0).

6. Unless otherwise stated, all characteristics referenced in this publication relate to the week before the interview (i.e. the reference week).

7. Unless otherwise stated, the data items detailing job information referenced in this publication relate to the job worked at home.

#### Results of the survey

8. Due to differences in the method of estimation used in this supplementary survey and that used in the labour force survey, there are some small variations between estimates in this publication and those in the corresponding issue of *The Labour Force, Australia* (6203.0).

9. The estimates in this publication refer to information collected in the survey month and, due to seasonal factors, may not be representative of other months of the year.

10. No summary publication was released for this survey.

11. April 1989 was the first time that a supplementary survey on this topic has been conducted.

12. It is proposed that this survey will be conducted next in April 1992.

#### Unpublished statistics

13. As well as the statistics included in this and related publications, the ABS may have other relevant unpublished data available. Inquiries should be made to the contact named in the Phone Inquiries box at the front of this publication.

#### Estimation procedure

14. The estimates are derived from the population survey by use of a ratio estimation procedure, which ensures that the estimates conform to an independently estimated distribution of the population for each capital city and remainder of State by age, gender and labour force status, rather than to the corresponding distribution within the sample itself.

#### Reliability of the estimates

15. Estimates in this publication are subject to sampling and non-sampling errors. For further information refer to the Technical Note, Appendix C.

#### Related publications

16. Other ABS publications which may be of interest include:

*The Labour Force, Australia* (6203.0)—issued monthly

*Employment Benefits, Australia* (6334.0)—issued annually

*Child Care Arrangements, Australia* (4402.0)—issued irregularly

17. Current publications produced by the ABS are listed in the *Catalogue of Publications, Australia* (1101.0). The ABS also issues, on Tuesdays and Fridays, a *Publications Advice* (1105.0) which lists publications to be released in the next few days. The Catalogue and Publications Advice are available from any ABS office.

#### Symbols and other usages

- \* subject to sampling variability too high for most practical uses. See the Technical Note, Appendix C.
- .. not applicable.

18. Because estimates have been rounded, discrepancies may occur between sums of the component items and totals.

#### Electronic services

VIATEL. Key \*656# for selected current economic, social and demographic statistics.

AUSSTATS. Thousands of up-to-date time series are available on this ABS on-line service through CSIRONET.

For further information phone the AUSSTATS Help Desk on (062) 52 6017.

TELESTATS. This service provides foreign trade statistics tailored to users' requirements. Further information is available on (062) 52 5404.

**Floppy disk service**

Selected ABS statistics are available on floppy disk. Further information is available on (062) 52 6684.

## APPENDIX C

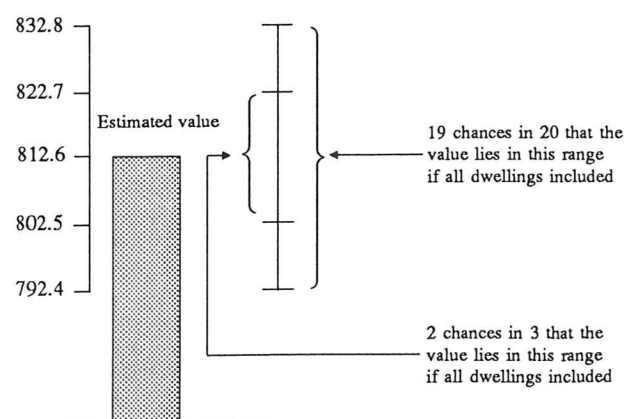
### TECHNICAL NOTE

<sup>1</sup> Since the estimates in this publication are based on information obtained from occupants of a sample of dwellings, they are subject to sampling variability: that is, they may differ from those that would have been produced if all dwellings had been included in the survey. One measure of the likely difference is given by the *standard error*, which indicates the extent to which an estimate might have varied by chance because only a sample of dwellings was included. There are about two chances in three that a sample estimate will differ by less than one standard error from the number that would have been obtained if all dwellings had been included, and about nineteen chances in twenty that the difference will be less than two standard errors. Another measure of the likely difference is the *relative standard error*, which is obtained by expressing the standard error as a percentage of the estimate.

2. Space does not allow for the separate indication of the standard errors of all estimates in this publication. A table of standard errors for general application is given on the following page. Since they are averages based on calculations for a limited number of past surveys over a wide range of labour force characteristics these numbers will not give a precise measure of the standard error of a particular estimate but they will provide an indication of its magnitude.

3. An example of the calculation and the use of standard errors in relation to estimates of persons is as follows. Table 1 shows the estimated number of employed females in Australia, who were aged 15 to 24 to be 812,600. Since this estimate is between 500,000 and 1,000,000 the standard error for Australia will be between 8,400 and 11,100 in the standard error table and can be approximated as 10,100 (rounded to the nearest 100). Therefore, there are about two chances in three that the value that would have been produced if all dwellings had been included in the survey will fall in the range 802,500 to 822,700 and about nineteen chances in twenty that the value will fall within the range 792,400 to 832,800. This example is illustrated in the following diagram:

('000)



4. As can be seen from the standard error table, *the smaller the estimate the higher is the relative standard*

*error*. Very small estimates are thus subject to such high standard errors (relative to the size of the estimate) as to detract seriously from their value for most reasonable uses. In the tables in this publication only estimates with relative standard errors of 25 per cent or less and percentages based on such estimates are considered sufficiently reliable for most purposes. However, estimates and percentages with larger relative standard errors have been included, and are preceded by an asterisk (e.g. \*3.4) to indicate they are subject to high standard errors and should be used with caution.

5. Proportions and percentages formed from the ratio of two estimates are also subject to sampling errors. The size of the error depends on the accuracy of both the numerator and the denominator. A formula to approximate the relative standard error (RSE) of a proportion is given below:

$$\text{RSE } (x/y) = \sqrt{[\text{RSE } (x)]^2 + [\text{RSE } (y)]^2}$$

6. Considering the example from paragraph 4 above, of the 812,600 employed females who were aged 15 to 24, 762,700 or 93.9 per cent worked no hours at home. The standard error of 762,700 is approximately 9,800 so the relative standard error is 1.3 per cent. The relative standard error for 812,600 is 1.2 per cent. Applying the above formula, the relative standard error of the proportion is  $\sqrt{[(1.3)^2 + (1.2)^2]}$  or 0.5 per cent, giving a standard error for the proportion (93.9 per cent) of 0.5 percentage points. Therefore, there are about two chances in three that the proportion of employed females who were aged 15 to 24 and worked no hours at home is between 93.4 per cent and 94.4 per cent and nineteen chances in twenty the proportion is within the range 92.9 per cent to 94.9 per cent.

7. Published estimates may also be used to calculate the difference between two survey estimates (of numbers or percentages). Such an estimate is subject to sampling error. The sampling error of the difference between two estimates depends on their standard errors and the relationship (correlation) between them. An approximate standard error (SE) of the difference between two estimates (x-y) may be calculated by the following formula:

$$\text{SE } (x-y) = \sqrt{[\text{SE } (x)]^2 + [\text{SE } (y)]^2}$$

While this formula will only be exact for differences between separate and uncorrelated characteristics or subpopulations it is expected to provide a good approximation for all differences likely to be of interest in this publication.

8. The imprecision due to sampling variability, which is measured by the standard error, should not be confused with inaccuracies that may occur because of imperfections in reporting by interviewers and respondents and errors made in coding and processing data. Inaccuracies of this kind are referred to as the *non-sampling error*, and they may occur in any enumeration, whether it be a full count

or a sample. Every effort is made to reduce the non-sampling error to a minimum by careful design of

questionnaires, intensive training and supervision of interviewers and efficient operating procedures.

## STANDARD ERRORS OF ESTIMATES

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Australia	
Size of estimate	— number —								Relative standard error (per cent)	
100						80				
200			190	160	180	120	170	140	180	89.0
300	290	280	240	200	220	150	210	170	230	75.2
400	340	330	280	230	250	180	240	260	270	66.6
500	380	370	310	260	280	200	260	220	300	60.5
600	420	410	340	280	310	220	280	240	340	55.9
700	450	440	370	310	330	240	300	260	370	52.2
800	480	470	390	330	350	250	320	270	390	49.2
900	510	500	420	350	370	270	340	290	420	46.7
1,000	540	530	440	370	390	280	360	300	450	44.5
1,100	570	560	460	380	410	290	370	310	470	42.7
1,200	590	580	480	400	420	300	390	330	490	35.2
1,300	620	610	500	410	440	320	400	340	510	39.6
1,400	640	630	520	430	460	330	420	350	540	38.2
1,500	660	650	530	440	470	340	430	360	560	37.0
1,600	680	670	550	460	490	350	440	370	580	36.0
1,700	700	690	570	470	500	360	460	380	590	35.0
1,800	720	710	580	480	510	360	470	390	610	34.0
1,900	740	730	600	490	530	370	480	400	630	33.2
2,000	760	750	610	510	540	380	490	410	650	32.4
2,100	780	770	630	520	550	390	500	420	670	31.7
2,200	800	790	640	530	560	400	510	430	680	31.0
2,300	810	800	650	540	570	410	520	430	700	30.4
2,400	830	820	670	550	590	410	530	440	710	29.8
2,500	850	840	680	560	600	420	540	450	730	29.2
3,000	920	910	740	610	650	450	590	490	800	26.8
3,500	990	980	800	660	700	480	630	520	870	24.9
4,000	1,050	1,050	850	700	740	510	670	550	930	23.3
4,500	1,100	1,100	900	730	780	540	710	580	990	22.0
5,000	1,200	1,150	940	770	820	560	750	600	1,050	20.9
6,000	1,300	1,250	1,000	830	880	600	810	650	1,150	19.1
8,000	1,450	1,450	1,150	950	1,000	670	930	730	1,350	16.6
10,000	1,600	1,600	1,300	1,050	1,100	730	1,050	800	1,500	14.8
20,000	2,200	2,200	1,750	1,400	1,500	920	1,400	1,050	2,050	10.4
30,000	2,600	2,600	2,100	1,650	1,750	1,050	1,700	1,200	2,500	8.4
40,000	2,950	2,950	2,350	1,850	1,950	1,150	1,950	1,350	2,850	7.2
50,000	3,250	3,250	2,600	2,050	2,150	1,200	2,150	1,500	3,150	6.3
100,000	4,300	4,300	3,400	2,650	2,850	1,500	3,000	1,900	4,300	4.3
200,000	5,700	5,600	4,500	3,450	3,700	1,750	4,200	2,450	5,800	2.9
300,000	6,600	6,600	5,200	3,950	4,300	1,900	5,100	2,800	6,900	2.3
400,000	7,400	7,300	5,800	4,400	4,750	2,000	5,800	3,050	7,700	1.9
500,000	8,000	7,900	6,300	4,750	5,200	2,100	6,500	3,300	8,400	1.7
1,000,000	10,300	10,100	8,100	6,000	6,600	2,350	9,000	4,100	11,100	1.1
2,000,000	13,000	12,800	10,300	7,500	8,400	2,600	12,700	5,100	14,300	0.7
5,000,000	17,600	17,100	13,900	9,900	11,300	2,850	19,800	6,700	19,700	0.4
10,000,000	21,800	21,100	17,200	12,000	14,000		27,800	8,100	24,800	0.2

## APPENDIX D

## POPULATIONS

POPULATION 1: Employed persons aged 15 and over.

POPULATION 2: Persons aged 15 and over employed at home (excluding farmers i.e. ASCO codes 1401 and 8201).

Including: —persons whose job entailed working both at home and elsewhere, if they usually worked more hours at home than elsewhere.

—persons who worked at home in their second job.

POPULATION 3: Employees aged 15 and over employed at home (excluding persons who worked for payment in kind).

POPULATION 4: Employees aged 15 and over employed at home in the Textiles, clothing and footwear industry (ie. ASIC codes 234, 235, 244, 245, 246).

POPULATION 5: Employees aged 15 and over employed at home as Child care workers (ie. ASCO code 6601).

VARIABLE	POPULATIONS	VARIABLE	POPULATIONS
1 STATE		6B FAMILY STATUS (2)	
New South Wales	All	Member of a family	All
Victoria		Husband or wife	
Queensland		With children aged 0-14 present	
South Australia		Without children aged 0-14 present	
Western Australia		Other family head	
Tasmania		With children aged 0-14 present	
Northern Territory		Without children aged 0-14 present	
Australian Capital Territory		Full-time student aged 15-24(a)	
		Other child of married couple or family head	
		Other relative of married couple or family head	
2 AREA		Not a member of a family	
Metropolitan	All	Living alone	
Non-metropolitan		Not living alone	
3 DISSEMINATION REGION		Family status not determined	
Standard labour force dissemination regions	All		
4 GENDER		(a) Excludes persons aged 20 to 24 attending school.	
Males	All	7A BIRTHPLACE	
Females		Born in Australia	All
5 MARITAL STATUS		Born outside Australia	
Married	All	Born in main English-speaking countries(a)	
Not-married		Born in other countries(b)	
6A FAMILY STATUS (1)		(a) Comprises United Kingdom, Ireland, Canada, South Africa, U.S.A and New Zealand.	
Member of a family	All	(b) Includes persons born at sea.	
Husband or wife		7B BIRTHPLACE AND PERIOD OF ARRIVAL	
With dependents present		Born in Australia	All
Without dependents present		Born outside Australia	
Other family head		Arrived before 1971	
With dependents present		Arrived 1971-1989	
Without dependents present			
Full-time student aged 15-24(a)		8 AGE	
Other child of married couple or family head		15-24	All
Other relative of married couple or family head		25-34	
Not a member of a family		35-44	
Living alone		45-54	
Not living alone		55-64	
Family status not determined		65 and over	
(a) Excludes persons aged 20 to 24 attending school.			

VARIABLE	POPULATIONS	VARIABLE	POPULATIONS
9	WHETHER EMPLOYED AT HOME	15	NUMBER OF HOURS USUALLY WORKED
	Employed 1		Under 20 2-5
	Worked no hours at home		20-29
	Worked some hours at home		30-34
	Usually worked less hours at home than elsewhere		35-39
	Persons employed at home		40 and over
10	STATUS OF WORKER	16	WHETHER ALL HOURS USUALLY WORKED AT HOME
	Employers 2		All hours usually worked at home 2-5
	Self-employed/unpaid family helpers		Some hours usually worked elsewhere
	Employees	17	NUMBER OF HOURS USUALLY WORKED AT HOME
	Payment in kind		Under 20 2-5
11	EDUCATIONAL ATTAINMENT		20-29
	With post-school qualifications 2-5		30-34
	Degree		35-39
	Trade qualification or apprenticeship		40 and over
	Certificate or diploma	18	MAIN REASON BEGAN WORKING AT HOME
	Other		Wanted office at home/no overheads/no rent 2-5
	Without post-school qualifications		Did not want to travel to work
	Attended highest level of secondary school available		Flexible working hours
	Did not attend highest level of secondary school available		Unable to find suitable childcare
	Left at age -		Children too young/preferred to look after children
	16 and over		No other work available
	15 and under		Other
	Never attended school	19	TIME IN JOB WORKED AT HOME
	Secondary school qualifications not determined		Under 5 years 2-5
	Still at school		5 and under 10 years
12	WHETHER JOB WORKED AT HOME WAS MAIN JOB		10 and under 15 years
	Main job 2-5		15 and under 20 years
	Second job		20 years and over
13	INDUSTRY	20	SIMILAR PREVIOUS WORK EXPERIENCE
	Agriculture, forestry, fishing and hunting 2-5		Had done this type of work before 2-5
	Mining		At home only
	Manufacturing		Elsewhere
	Electricity, gas and water		Had not done this type of work before
	Construction	21A	SUPERANNUATION COVERAGE (1)
	Wholesale and retail trade		Covered 2
	Transport and storage		Employees
	Communication		Provided by current employer
	Finance, property and business services		Other
	Public administration and defence		Other
	Community services		Not covered
	Recreation, personal and other services	21B	SUPERANNUATION COVERAGE (2)
14	OCCUPATION		Covered 3-5
	Managers and administrators 2-5		Provided by current employer
	Professionals		Other
	Para-professionals		Not covered
	Tradespersons	22	WORKERS' COMPENSATION COVERAGE
	Clerks		Covered 2-5
	Salespersons and personal service workers		Not covered
	Plant and machine operators, and drivers		Did not know
	Labourers and related workers		

VARIABLE	POPULATIONS	VARIABLE	POPULATIONS
23A WHETHER CHILDREN AGED 0 TO 14 PRESENT (1)		28 WHETHER DOING SAME TYPE OF WORK AT HOME FOR OTHER EMPLOYERS	
Member of a family with children aged 0 to 14 present	2-5	Working at home for other employers	3-5
One or more children under 3 years of age		Not working at home for other employers	
No children aged 3 to 14			
One or more aged 3 to 5 only		29 USUAL GROSS WEEKLY PAY (\$)	
One or more aged 6 to 14 only		Under 120	3-5
One or more aged 3 to 5 and one or more aged 6 to 14 only		120 and under 160	
No children under 3 years of age		160 and under 200	
One or more aged 3 to 5 only		200 and under 240	
One or more aged 6 to 14 only		240 and under 280	
One or more aged 3 to 5 and one or more aged 6 to 14 only		280 and under 320	
Member of a family without children aged 0 to 14 present		320 and under 360	
Family status not determined		360 and under 400	
		400 and under 440	
24 TRADE UNION MEMBERSHIP		440 and under 480	
Member	3-5	480 and under 520	
Not a member		520 and under 560	
25 PROVISION OF SICK LEAVE		560 and under 600	
Paid sick leave	3-5	600 and under 640	
No paid sick leave		640 and under 680	
26 PROVISION OF PAID HOLIDAY LEAVE		680 and under 720	
Paid holiday leave	3-5	720 and under 760	
No paid holiday leave		760 and under 800	
27 WHETHER PERMANENT OR CASUAL		800 and over	
Permanent	3-5	Did not know	
Casual		Average usual gross weekly pay	
		30 BASIS OF PAYMENT	
		By the piece	3-5
		On contract	
		By the hour	
		Other	

NOTE: More detailed breakdowns of some variables are available.

## SPECIAL DATA REQUEST ORDER FORM

### PERSONS EMPLOYED AT HOME, APRIL 1989

Please specify your special data request(s) on the order form provided on the following page.

The following points should be noted when requesting special tables:

1. Table requests will be available on computer printout or microfiche.
2. The current cost of special tables is as follows—

No. of variables (excluding populations)	Cost per table (\$)
2	60
3	75
4	105
5	150
6 or more	negotiable

Note, for tables on microfiche, an additional cost of \$7.00 per microfiche will be charged. Prices quoted are subject to revision.

3. Return the completed order form together with the **address advice** to—

Assistant Director  
Labour Force Supplementary Surveys  
Australian Bureau of Statistics  
PO Box 10  
Belconnen ACT 2616

4. The invoiced cost is payable in full within 14 days of supply.
5. Any inquiries about this order should be directed to Ms Cheryl Trussler on (062) 52 6661.



**ADDRESS ADVICE — DETACH AND FORWARD TOGETHER WITH YOUR COMPLETED ORDER FORM.**

Please send my order and invoice to —

NAME \_\_\_\_\_

ORGANISATION \_\_\_\_\_

ADDRESS \_\_\_\_\_

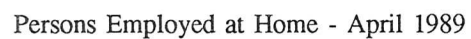
POSTCODE \_\_\_\_\_

TELEPHONE \_\_\_\_\_

Signature \_\_\_\_\_

Date    /    /





## SPECIAL DATA REQUESTS

[illegible]

**\* A RECENT LABOUR FORCE PUBLICATION \***

***L*ABOUR MOBILITY**

A survey run as a supplement to the February 1989 Labour Force Survey shows that the proportion of people who change jobs during the year has increased over the last five years from 14 per cent in 1984 to 20 per cent in 1989.

Results of the survey, classified by age, sex, industry, occupation and other characteristics are now available in:

- *Labour Mobility, Australia, During the Year Ending February 1989* (6209.0), \$11.50.  
Contact an **ABS Bookshop** in your State.

***A*BS Bookshops**

Sydney (02) 268 4620	Melbourne (03) 615 7829	Brisbane (07) 222 6350	Adelaide (08) 237 7582
Perth (09) 323 5143	Hobart (002) 205 800	Darwin (089) 815 222	Canberra (062) 52 5249

